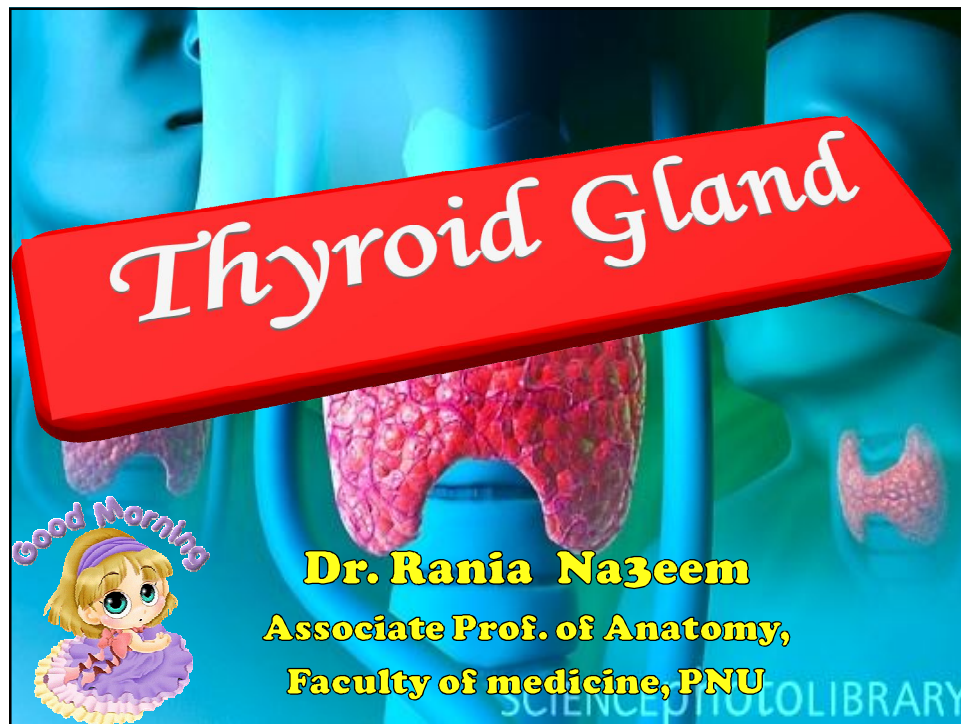




Learning objectives

- ☐ Describe site and shape of thyroid gland
- ☐ Discuss relation & blood supply of thyroid gland
- ☐ Evaluate the clinical aspects of thyroid enlargement
- ☐ Describe the anatomy of parathyroid glands

Dr. Rania

Site:

C5, C6, C7, T1

Extension:

From middle of thyroid cartilage

To 5th tracheal ring

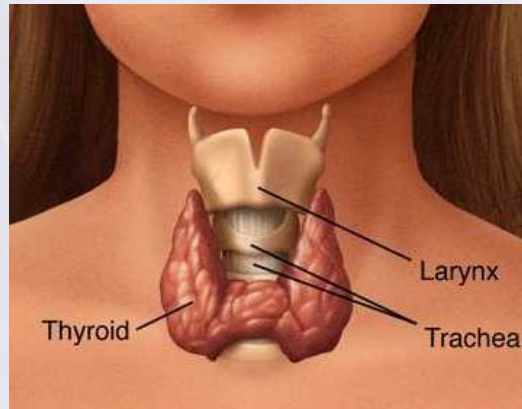
Shape: butterfly

Divisions:

2 lobes

Isthmus

Pyramidal lobe



Dr. Rania

Lobes:

Apex: at level of oblique line

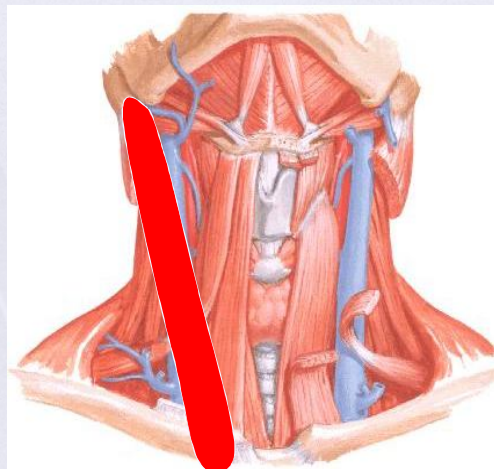
Base: at level of 5th ring

Lateral surface: convex, covered by:

Sup. Belly Omohyoid ms

Sternomastoid ms

Sternohyoid, sternothyroid ms



Dr. Rania

Lobes:

Medial surface: is related to

Upper part:

Larynx Anteriorly

Pharynx Posteriorly

Sup. laryngeal n. ()

Lower part:

Trachea Ant.

Esophagus post.

Recurrent laryng. N. ()



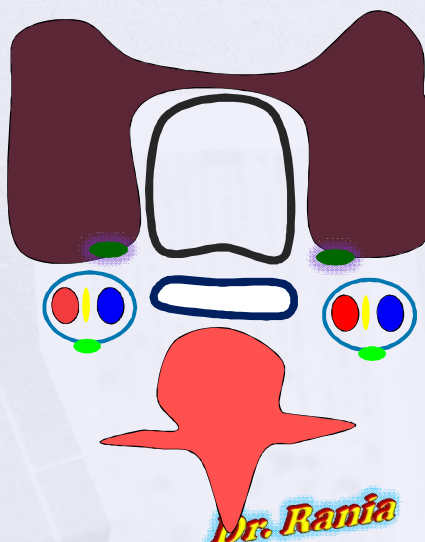
Dr. Rania

Lobes:

Post. surface: is related to

Carotid sheath: contains common carotid artery, internal jugular vein and vagus nerve

Parathyroid glands



Dr. Rania

Lobes:

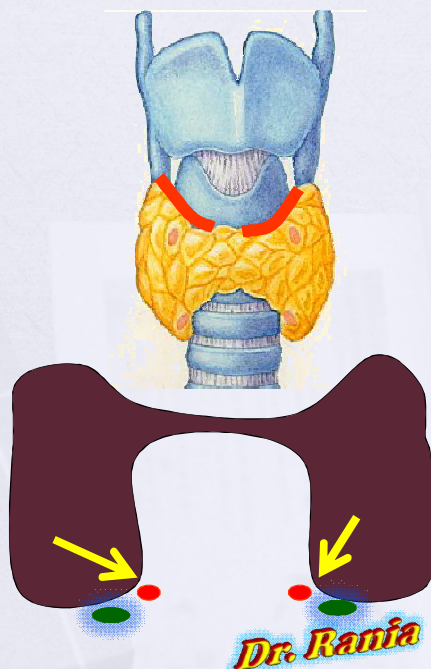
Ant. border: is related to

Superior thyroid ar.

Post. border: is related to

Parathyroid glands

Superior & inferior thyroid arteries



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Isthmus:

Ant. surface: **Sterno**
sternothyroid

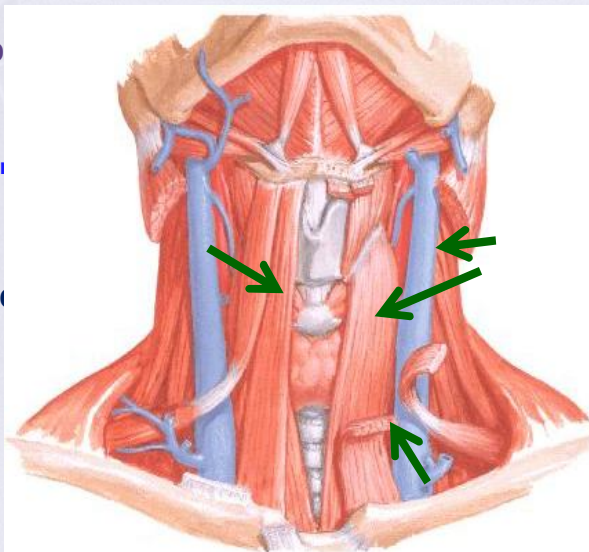
Post. surface: **2nd, 3rd**
rings

Upper border: **superior**
thyroid ves

Lower border:

inferior thyroid vein

Thyroidae ima art



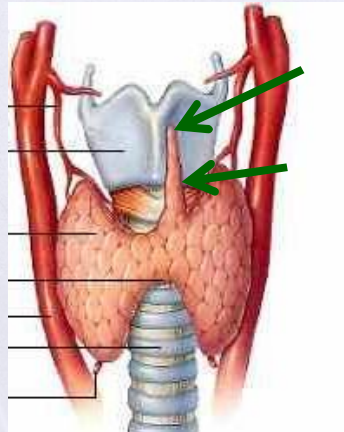
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Isthmus:

**Pyramidal lobe: at the
upper border of isthmus**

To the Left side

**Levator glandulae
thyroidae: ruminants of
thyroglossal duct**



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Arterial Supply:

Superior thyroid art.

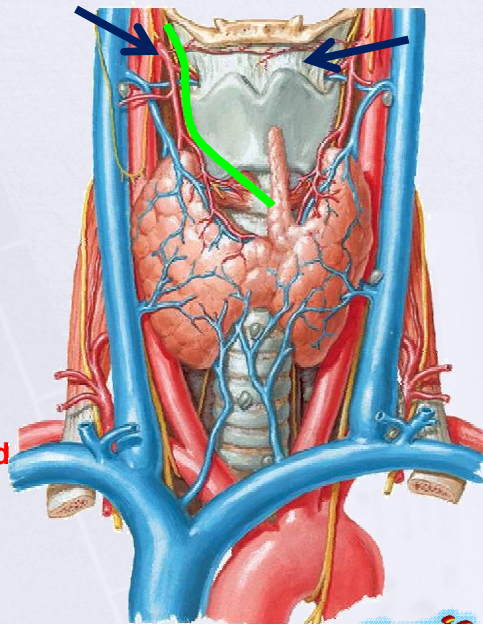
Origin: ECA

Course:

**Accompanied by external
laryngeal n**

Supply:

Upper part of Thyroid gland



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Inferior thyroid art.

Origin: thyrocervical trunk
that arises from 1st part of
subclavian artery

Course:

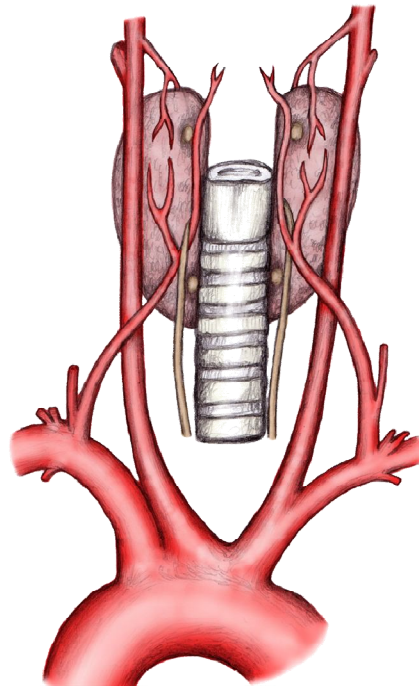
Run in groove () trachea &
esophagus

Recurrent laryngeal n

Supply:

Lower part of thyroid gland

Parathyroid gland



Thyroidae ima art.:

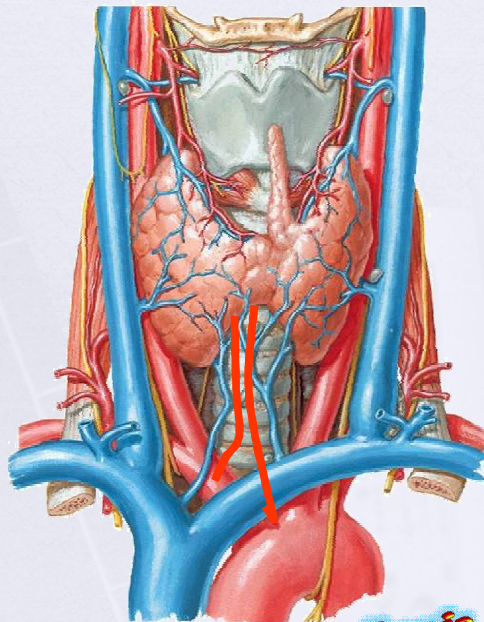
Origin:

Brachiocephalic

OR

Arch of aorta

Supplies the isthmus



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Venous Drainage:

Superior thyroid v

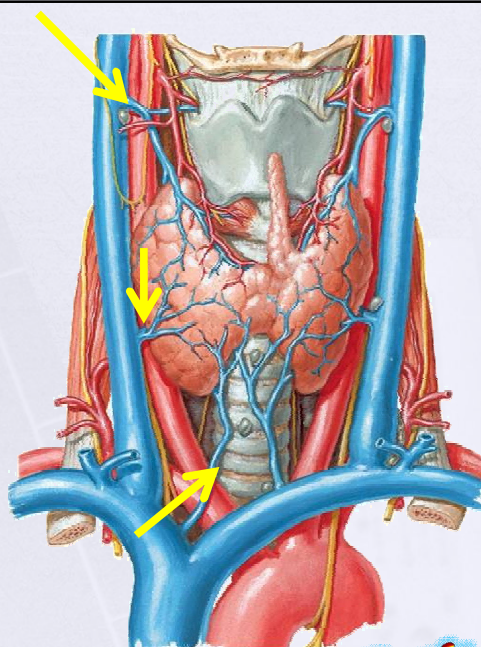
IJV OR Common facial

Middle thyroid v

IJV

Inferior thyroid v

Brachiocephalic v



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Capsule surround thyroid gland:

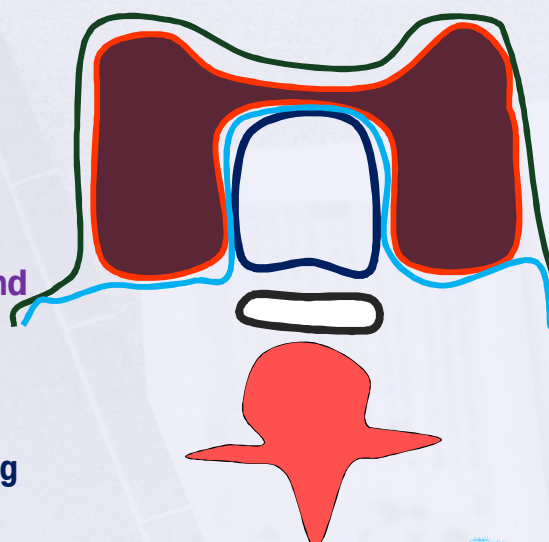
True: fibrous tissue

False:

Pretracheal fascia

Fix gland to larynx and trachea

Move during swallowing



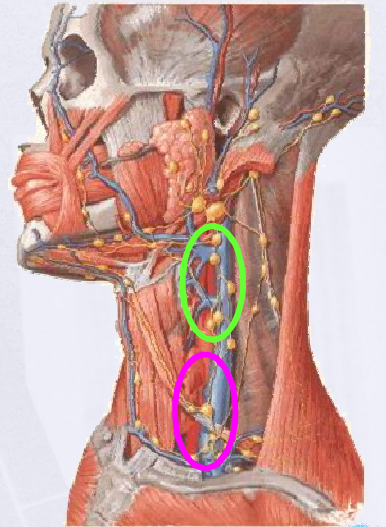
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Lymphatic drainage:

Upper deep cx LN

Lower deep cx LN

Pretracheal LN



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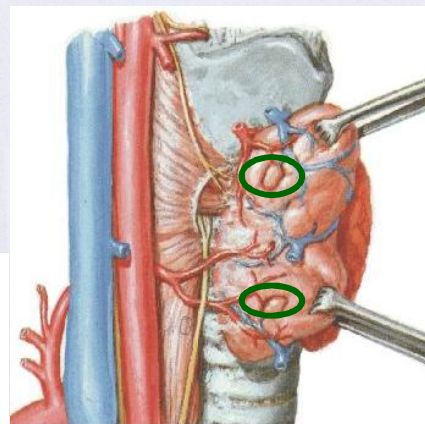
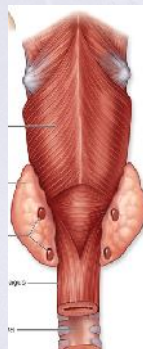
Parathyroid glands

Number: 4

Site: post. Border of thyroid gl

Arterial supply: Inf.

Thyroid art



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Thyroid enlargement

Move with swallowing



Dyspnea

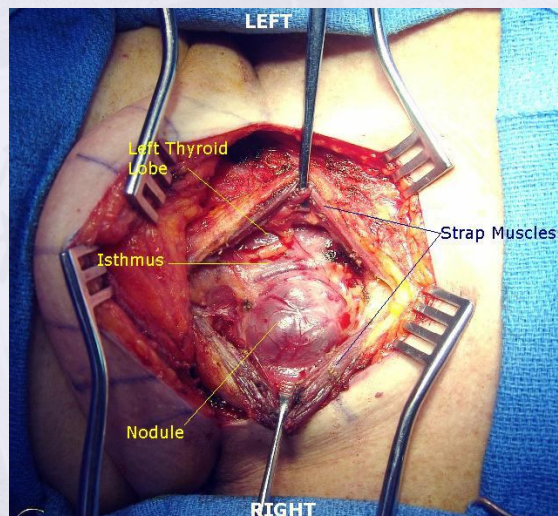
Dysphagia

Fainting attacks

Horsiness of voice

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Thyroidectomy



Subtotal

Sup thyroid
artery
ligation

Inf thyroid
artery
ligation

Dr. Rania

